

In the Matter of)
)
INCREASING PUBLIC SAFETY)
INTEROPERABILITY BY PROMOTING)
COMPETITION FOR PUBLIC SAFETY)
COMMUNICATIONS TECHNOLOGIES)

COMMENTS OF GREAT RIVER ENERGY

a. Identification and Description of Our Company

II. Existing Trunked Mobile Radio System

III. TETRA Technology

IV. Importance of Mobile Radio Communications To Utilities

Utilities, like public safety, rely heavily on privately owned and operated mobile radio systems. This is the communications system we use for communication from our dispatch centers to field crews for maintenance and repair of the power grid. This radio system is designed with extremely high reliability, and has a minimum of three days of back up generation at every site so that in the case of a blackout situation, our crews have communications to get the power grid started. Because of the need for durability and reliability, utilities typically purchase radio systems designed for public safety users. The radio system we use is the same radio system deployed by hundreds of public safety agencies throughout the country. For this reason, the options that public safety has access to for their communications is of extreme interest and importance to utilities.

V. Responses to FCC Questions

- 1. What are the factors that affect the current state of competition in the provision of public safety communications equipment?**
 - a. The mobile radio market is more or less controlled by a small number of manufactures that use their intellectual property rights as a barrier to keep other mobile radio manufacturers out of the market and keep the costs of radios significantly higher in the United States than they are in other parts of the world.
- 2. Are there any additional barriers to additional manufacturers supplying network equipment to the public safety community for narrowband communications?**
 - a. While TETRA technology is extremely spectrally efficient at 6.25 kHz channel equivalency, exclusive 25 kHz channels are needed for its deployment.
 - b. The TETRA standard does not currently meet the FCC's emission mask. There is currently a Waiver Request by the TETRA Association to allow for this variation.
- 3. For broadband communications?**
 - a. Public safety has access to broadband spectrum. Utilities do not.
- 4. How would additional competition in the provision of public safety communications equipment improve narrowband or broadband interoperability?**
 - a. By allowing a more open standard that is less expensive that more agencies could deploy, more agencies would be able to easily interoperate when needed.
- 5. Conversely, what impact does the current state of competition in the provision of public safety communications equipment and devices have on interoperability?**
 - a. Agencies in smaller counties and towns cannot afford the high cost of P25 radio systems. Many of these agencies continue to operate VHF high band systems which cannot interoperate with P25 systems.
- 6. Assuming additional competition would benefit public safety interoperability, what actions could the Commission take to improve competition in the provision of public safety communications equipment?**
 - a. Approve the TETRA association waiver request to allow TETRA to be used in the United States.
 - b. Make provisions in spectrum allocation for contiguous exclusive use 25 kHz channels for PLMR so that TETRA can be deployed.
- 7. What are the limitations of Project 25 in promoting narrowband public safety communications interoperability?**
 - a. As mentioned above, P25 systems are costly and cannot be deployed by all agencies.
- 8. What actions, if any, should the Commission take to rectify these limitations?**
 - a. Approve the TETRA waiver to allow TETRA, the open, most widely deployed technology in the world to be able to be used in the United States. Also, make provisions in spectrum allocation for contiguous exclusive use 25 kHz channels for PLMR so that TETRA can be deployed.

9. **Could open standards for public safety equipment increase competition?**
 - a. Yes.
10. **What actions could the Commission take to facilitate openness?**
 - a. Approve the TETRA waiver to allow TETRA, the open, most widely deployed technology in the world to be able to be used in the United States.
11. **As the Commission considers requirements for the 700 MHz broadband public safety network, are there any requirements on public safety equipment or network operators that would increase competition in the provision of public safety equipment? How can the Commission's work on requirements for the 700 MHz broadband public safety network be leveraged to promote interoperability between narrowband and broadband networks?**
 - a. No comment.

Respectfully submitted,

Great River Energy
Kathleen Nelson, P.E.
Senior Telecommunications Engineer

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